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			U.S. PAT	ENT D	OC'	UMENTS			
EXAMINER'S	CITE		Document Number Pu	iblication Dat	te	Name of Patentee or A	pplicant of Cited	Pages, Columns,	
INITIALS	NO.	Num	nber-Kind Code _{2 (# known)} M	IM-DD-YYYY		Docume	nt	Lines, Where Relevant Passages of Relevant Figures Appear	
	A1	US	3,552,975	01/5/1971		Worden,	et al.		
	A2	US		3/13/1973		Bavisotto,	et al.		
	A3	US	<u>'''</u>	6/13/1976		Haas			
	A4	us		1/20/1976		Wilkins			
	A5	US		6/22/1976		Westerman			
	A6	US		0/31/1978	_	Gran			
	A7	US		1/09/1979		Thiele, e			
	A8	US		4/10/1979	_	Owade		 	
	A9	US		5/15/1979	_	Gran			
	A10	US		6/21/1983		Palamand Owades		1	
-	A11 A12	US US		0/09/1979 8/30/1983	_	Verslu			
	A12	US		9/25/1984		Schinits			
	A14	US		1/19/1985	_	Panzer, e		†	
	A15	US	· ·	2/17/1987		Cowles,			
	A16	us		9/08/1987		Spine			
	A17	us		8/30/1998	\rightarrow	Goldstein			
	A18	us	4,857,554 0	8/15/1989	,	Kallima	nis		
	A19	us		4/09/1991		Motitschke			
	A20	US	5,013,571 0	5/07/1991	1	Hay			
	A21	us	5,041,300 0	8/20/1991		Todd et	al.		
	A22	US	5,073,396 1	2/17/1991		Todd,	Jr.		
	A23	US	5,082,975 0	1/21/1992	2	Todd, Jr.,			
·	A24	us		0/13/1992	$\overline{}$	Paul			
	A25	us		1/24/1992		Todd, Jr.,			
	A26	US		2/15/1994		Millis, e			
 	A27	US	· · ·	2/012000		Ting, et			
	A28	US		2/07/1995	_	Hsu, et		ļ	
	A29	US		2/18/1987		Tobe, e			
	A30	US		1/23/1993		Ogasahara		 	
	A31	US		6/24/1997	_	Eskeland,		<u> </u>	
	A32	US		0/27/1998	_	Nutter, e		 	
	A33	US	5,968,539 1 AMINER	0/19/1999		Beerse e	t al. TE CONSIDERED	<u> </u>	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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			U.S. PATI	ENT DOC	UN.	IENTS CONT.		
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INITIALS	NO.	Number-Kind Code2 (# known)		MM-DD-YYY	Υ	Document		Lines, Where Relevant Passages o Relevant Figures Appear
	A34	US	5,919,813	07-06-199	9	De Jua	an	
	A35	US	6,020,019	05/21/200	2	Ting et		
	A36	US	6,129,907	02/01/200	0	Sreenivasaı	n, et al.	
	A37	US	6,200,594	03/13/200		Ernest e		
	A38	US	6,383,527	05/07/200		Artman, e		
	A39	US	6,391,346	05/21/2002		Newmark, et al.		
	A40	US	6,440,465	08/27/200		Meisne		
	A41	US	6,447,762	09/10/200		Galcei		
	A42	US	6,583,322	06/24/200		Shalai, e		-
	A43	US	6,689,388 6,790,459	02/10/200		Kuhrts Cheng, et al.		
	A44 A44	US	6,801,860	-				-
	A45	US	7,279,185	10/05/200 10/29/200		Dessen e Babish, e		
	A46	US	20020076452	06/20/200		Babish, e		
	A47	US	20020077299	06/20/200		Babish, e		
	A48	US	20020086062	07/04/200		Kuhrt		
	A49	US	20020086070	07/04/200		Kuhrt		
	A50	US	20020028852	03/07/200	2	Ghai, et	al.	
	A51	US	20030077313	04/24/200	3	Schwartz, Robi	ert; et al.	
	A52	US	20030096027	05/22/200		Babish, e		
	A53	US	20030113393	06/19/200	4	Babish, e	et al.	
	A54	US	20030133958	07/17/200	3	Kuno, et	t al.	
	A55	US	20030180402	09-25-200	3	Jia et a	al.	
•	A56	US	20040072900	04/15/200		Artman e		
	A57	US	20040086580	05/06/200		Tripp, et		
	A58	US	20040137096	07/15/200		Kuhrt		
	A59	US	20040219240	11/04/200		Babish, e		
· · · · · · · · · · · · · · · · · · ·	A60	US	20040151792	08/00/200	_	Tripp, et		
	A61	US	20040138199	07/00/200	4	Gogliotti,	et al.	
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EXAMINER'S	т т	Foreign Patent Document	Publication Date		Pages, Columns, Lines	Trans	Translation			
INITIALS	CITE NO.	Country Codes-Number 4-Kind Codes (if known)	MM-DD-YYYY	Applicant of Cited Document	Where Relevant Figures Appear					
						Yes	No			
	B1	DE 19841615	03/16/2000	Mueller	Abstract					
	B2	DE 2212148	09/28/1972	GEN FOODS CORP	Abstract		_			
	В3	DE 3931147	03/28/1991	SOLONG NATURAL	Abstract					
	B4	JP 07194351	08/01/1995	Nippon Zoki Pharm Co., Ltd.	Abstract					
	B5	JP 410025247	01/27/1998	ASAHI BREWERIES LTD	S Abstract					
	B6	JP 10152428	06/09/1998	KANEBO LTD	Abstract					
	B7	JP 9067245	03/11/1997	Ashai Breweries, Ltd.	Abstract					
	B8	JP 04202138	07/22/1992	Asahi Breweries Ltd	Abstract					
	B9	JP 6312924	11/08/1994	Asahi Breweries Ltd	Abstract					
	B10	JP 363211219	09/02/1988	TAIYO KORYO KK	Abstract					
	B11	JP 8073369	03/19/1996	Kubo M						
-	B12	RU 2045955	10/20/1995	Nikitina	Abstract		Г			
	B13	SU 1247011	07/30/1986	SP K B KHIM N PROIZV OBEDINENI	Abstract					
_	B14	WO 00/68356	11/16/2000	Yakima Chief, Inc.						
	B15	WO00/74696	12/14/2000	OXFORD NATURAL PRODUCTS PLC						
	B16	WO02/02582	01/10/2002	Deutsches			Г			
•	B17	WO99/44623	09/10/1999	NPS Pharmaceuticals			Γ			
	B18	WO 03/082249 A1	10/09-/003	Alcon, Inc.						
	B19	GB 2 330 076	04/14/1999							
	B20	EP 0 606 599	07/20/1994	Miller Brewing			H			
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Subst. for fo	orm, 1449/F	PTO	·		Complete if Known			
141505		D:00		_	Application Number	10/789,817		
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					Examiner Name	Carter, Kendra D		
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	ОТН	ER AR	T (Includ	ding Author, T	itle, Date, Pertine	nt Pages, Etc.)		
	C1				ownloaded from Internet			
	C2				nd PM", downloaded from			
	C3				", downloaded from inter			
	C4			Pharmacol, Comm. 4				
	C5				5: 621-624 and 625-628	(2003)		
	C6			m. Soc. 545 (1959)				
	C7	Byrne, et	al. J. Cher	n. Soc. (c):2810 (19	71)			
	C8			n. Chem. <u>49</u> :861-867				
	C9			n. Soc. <u>73</u> :1850-185				
	C10				rch <u>60(1):</u> 138-142 (1972))		
	C11	Charlier,	et al. Eur.	J. Med. Chem. 38:64	15-659 (2003)			
	C12	Chou, et	al. Eur. J. I	Biochem. <u>115</u> :207-2	16 (1981)			
	C13	Chou, et	al. Adv enz	zyme regul <u>22</u> :27-55	(1984)			
	C14			Chem. <u>252</u> :6438-64				
	C15	Chou, et	al. J. Theo	r. Biol. 35:285-297 (1972)			
	C16	Chou, et	al. Trends	Pharm. Sci. <u>4</u> :450-4	54 (1983)			
	C17	Chou, J.	Theor. Biol	1. 59:253-276 (1976)	· · · · · · · · · · · · · · · · · · ·			
	C18				ublishing Group, Vol. 1,	pp. 309-315.		
	C19			Liver Dis. 35:642-64				
	C20				g stuffs and Farm Suppl	ies J. 11:694 (1926)		
	C21				m. 261:218-223 (1999)	·		
	C22					Diseases, Cleveland Clinic,		
,	1			org, March 14, 200				
	C23	Friedman	n, et al. J C	utan Med. Surg. 6(5):449-459 (2002)			
	C24	Germany	, "The Abs	olutely German Drin	k," contents of beer, 200			
	C25				cer 41 (2005), pp. 1941-1954			
	C26			. J. Gastroenterol. 9				
	C27	Halter, et	t al. Gut 49	:443-453 (2001)				
	C28			io. Chem. 246:6713				
	C29	Huang, e	t al. Cance	r Res. 51:813-819 (1	1991)			
	C30	Internation	onal Search	Report for PCT/US	02/19617			
	C31			Report for PCT/US				
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	C32			tol_65(4):379-382.(1		200000000000000000000000000000000000000		
	C33	Kanemat	lsu, et al. J	Bone Miner Res 12(11):1789-1796 (1997)			
	C34			es Opin. 8:145-149				
	C35	Meling, e	t al. Scand	. J. Gastroenterol. 3	1:339-344 (1996)			
-	C36			t. Prod 61:2-7 (1998)				
	C37				ent 2s93-s101 (1998)			
000000000000000000000000000000000000000		Panglisch	b, monafss	chrift fuer brauwisse	n.schaft, 1990, 43(1), 4-	1.6		
	C39	Pippa, et	al. Scand.	J. Gastroenterol. Su	ıppl. 167:32-35 (1989)			
	C40			st. Dermatol. 65(6):5				
	C41			troenterol. Hepatol.				
	C42			at Prod 61:1212-121				
	C43			emary-eco Botany, 2				
			MINER		1	ATE CONSIDERED		
		2.50						

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Subst. for f	iom 1449/I	то		_	Complete if Known			
INEOD	RA A TIO	N DISC	LOCUBE	CTATEMENT	Application Number	10/789,817		
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					Examiner Name	Carter, Kendra D		
Sheet		5	of	7	Docket Number 068911-0074			
	C44	Røseth.	diaest. Liver	Dis. 35:607-609 (20	03)			
	C45			. Dermatol. 149:484				
	C46			39-346 (2001)	101 (2000)			
	C47				. Comm. 289:220-224 (2	2001)		
	C48			r res. 61:6307-6312		2001/		
;	C49			Pharmacol. 18:23-3				
	C50					Derived From Hops, Journal of		
	1 030				s, Vol. 56, No. 2, 1998,			
	C51			Cancer Res. <u>60</u> :239		pp. 02 07		
	C52			s. <u>58</u> :717-723 (1988				
	C53							
	C54					answer to arthritis, cancer &		
	U34				elease 7; pp. 147-151, 2			
	CEE					240.		
	C55			day <u>37</u> :85-96 (2001)			
	C56			62-366 (1999)).450 450 (4007)	·		
	C57			otech. Biochem 61(1				
	C58					alpha-acids in beer by direct		
					Itraviolet absorbance de			
	050	spectrometry, Journal of Chromatography, Vol. 1035, No.1, (4-30-2004), pp.53-61 Wang, et al. Free Radical Biology & Medicine 27:612-616 (1999)						
	C59							
	C60			tl Acad Sci USA 96		50.4.005 (4000)		
	C61				s & Other Lipid Mediator	rs <u>59:</u> 1-235 (1999)		
	C62			ters 465:103-106 (2				
	C63			. Bull. 26:753-760 (2				
	C64				Report for EP Application No. 05723895.8 (5 pages) PCT Application No. PCT/US06/30920			
	C65							
	C66			rapy Research, 13 (
	C67				T Application No.: PCT			
	C68					ical Measures for Production of		
					y of Munich, Approved D			
	C69					lops and Beer: To your Good		
.	C70	Ward, et	Health!, Sciencedirect, November 2007, 2 pp (abstract) Ward, et al., Therapeutic Potential of Phosphoinositide 3-Kinase Inhibitors, Chemistry & Biology, Vol. 10, 207-213, March 2003					
	C71	Arner, P., Insulin Resistance in Type 2 Diabetes – Role of the Adipokines. Curr. Mol. Med.; 5(3):333-339, (May 2005).						
	C72				rmacol Rev; 41(2):93-14	1 1 (1989)		
_	C73	Boden, G				stance and NIDDM. Diabetes		
	C74		Cho et al., A		d for Normal Growth but m 276:38349-38352 (20	t Dispensable for Maintenance		
			MINER	THE PROPERTY OF THE	T	E CONSIDERED		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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BY APPI (Use as man	LICAN	IT	LOSURE	STATEMENT	Application Number	10/789,817			
BY APPI (Use as man)	LICAN	IT	LOSUKE	SIAILIVILIVI	Application Number 10/789,817				
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			sary)		First Named Inventor	John Babish			
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					Examiner Name	Carter, Kendra D			
	6	3	of	7	Docket Number 068911-0074				
	C75		., Insulin Res	istance and a Diabe		me in Mice Lacking the Protein			
	C76			Science 292:1728-1		eletionships. The Combined			
	C76				nalysis of Dose-eπect Re itors; Adv Enzyme Regu	elationships; The Combined I 22:27-55, (1984).			
	C77	Choy, et	al., Cytokine	Pathways and Joint		atoid Arthritis; New England			
	C78	Jour. Med Crowley	d. 344:pp. 90 et al. A Criti	7-916, (2001). cal Role for Syk in S	ional Transduction and	Phagocytosis Mediated by Fcγ			
		Receptor	s on Macrop	hages; J. Exp. Med.	186:1027-1039, (1997)				
	C79				iation by RNA Polymera: les 11:1475-1489, (1983	se II in a Soluble Extract From			
	C80	Fasshaue	er, M., et al.,	Hormonal Regulation	n of Adiponectin Gene E	xpression in 3T3-L1			
	C81				un, 290:1084-1089, (200	02). odel of the Cytokine System. J			
	COI		74(1):1-12,	•	ngilai Transduction. A ivi				
	C82		B.H., Non-in	verted Versus Invert	ed Plots in Enzyme Kine	etics; Nature 184:1296-1298,			
	C83	(1959). Hutchcro	ft, J. E., et al	, Association of the	72-kDa Protein-tyrosine	Kinase Ptk72 with the B-cell			
		Antigen F	Receptor; J. E	Biol. Chem. 267:86	13–8619, (1992).				
	C84	Jiang, K., 244, (200		lation of Akt-depend	ent Cell Survival by Syk	and Rac; Blood 101, pp. 236-			
	C85	,	Kasturi, R., e			zyme A Desaturase Activity and			
	C86					nem, 257:12224-12230, 1982. na Agonist and Constitutively			
		Active PF	ARgamma2	; Mol. Endocrinol., 1	6:1040-1048, (2002).	-			
	C87				Improve Glucose Home 137 Suppl:S75-S80, (19	ostasis by Stimulating Fatty Acid			
	C88	Moon KD	, et al., Mole	cular Basis for a Di	rect Interaction between	the Syk Protein-tyrosine Kinase			
		and Phos (2005).	phoinositide	3-Kinase; J. Biol. C	hem. 280, No. 2, Issue c	of January 14, pp. 1543-1551,			
	C89	Oakes, N				Tissue FFA Exchange Capacity			
		and Enha (2001).	ince Insulin-l	Mediated Control of	Systemic FFA Availabilit	y; Diabetes 50(5):1158-1165,			
	C90	Parker, P				cle; Effect of Insulin on the State			
		of Phospl 130:227-		the Seven Phospho	serine Residues in vivo;	(1983) Eur. J. Biochem.			
	C91	Raeder, E	E. M., et al., :			g Events During Human			
		Polymorp	honuclear L	eukocyte Phagocyto	sis, J. Immunol. 163: 67	85–6793, (1999)			
	C92				and derangements in lip Diabetes Metab. Res. Re	id metabolism. Cure Through v.; 21: 3-14 (2005).			
	000								
	C93	Stumvoll, 224, (200		litazones: clinical ef	ects and molecular mec	hanisms. Ann Med 34(3): 217-			
					r				
		EXA	MINER		DAT	E CONSIDERED			

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Subst. for form 1449/PTO					· Comp	lete if Known				
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					Art Unit	1617				
					Examiner Name	Carter, Kendra D				
Sheet		7	of	7	Docket Number	068911-0074				
	C94		(raan P.M., e are,3:205-21		destructive mediators in	osteoarthritis. Curr Opin Clin Nutr				
	C95	Verdu et cell Biol	al., Cell-auto	onomous regulation of 999).		in Drosopholia by Akt/PKB; Nat				
	C96	Opin Pha	rmacol. Aug	;3(4):426-434, (2003	3).	bitors as therapeutic agents. Curr				
	C97	Warner, oxygena	Warner, T.D. et al. Nonsteroidal drug selectivities for cyclo-oxygenase-1 rather than cyclo-oxygenase-2 are associated with human gastrointestinal toxicity: A full in vitro analysis. Proc. Natl. Acad. Sci. USA 96:7563-7568, (1999).							
	C98	Wong B. Investig I	R., et al., Tai Drugs 13:743	rgeting Syk as a trea 3-762, 2004.		toimmune disorders. Expert Opin				
	C99	Yajima, H., et al., Isohumulones, Bitter Acids Derived From Hops, Activate Both Peroxisome Proliferator-Activated Receptor Alpha and Gamma and Reduce Insulin Resistance. J Biol Chem. 279: 33456-33462, (2004).								
- · ·	C100	Yamada, P72(Syk	Yamada, T., et al., Association with B-cell antigen cell antigen receptor with protein-tyrosine kinase P72(Syk) and activation by engagement of membrane IgM; Eur. J. Biochem. 213: 455–459, (1993)							
	C101	Yamauchi, T., et al., The mechanisms by Which Both Heterozygous Peroxisome Proliferator- activated Receptor gamma (PPARgamma) Deficiency and PPARgamma Agonist Improve Insulin Resistance; J Biol Chem 276(44): 41245-41254, (2001).								
	C102	Yang, W. S., et al., Weight Reduction Increases Plasma Levels of an Adipose-Derived Anti- Inflammatory Protein, Adiponectin; J Clin Endocrinol Metab 86(8): 3815-3819, (2001).								
	C103				Nilotica Leaves and Eva aculty of Pharmacy (20	aluation of Antihyperglycemic 04), 42 (2), 317-325				
		EX/	MINER		DA	TE CONSIDERED				
		/Kendr	a Carter/		07/13/2009					

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /K.C./